

**MH 330**

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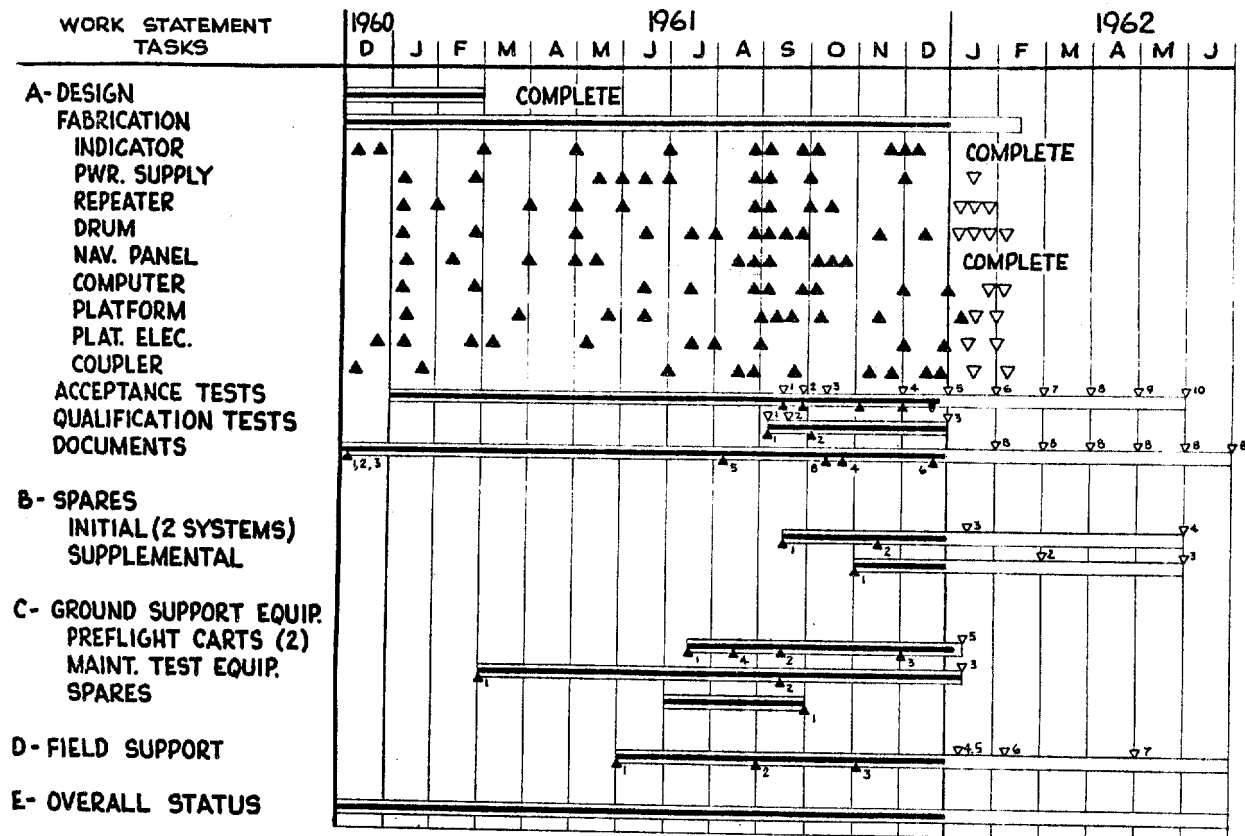


**JANUARY 4, 1962**

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4 JANUARY 1962

# 330 PROGRAM CHECKPOINTS



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## 330 Checkpoints

Task	Date
A. Design	Complete
Fabrication	As Shown
Acceptance Tests	Systems Complete as Shown
Qual. Tests	
1. Start Subsystem Tests	8-21-61
2. Start System Tests	9-15-61
3. Qual. Tests Complete	1-1-62
Documents	
1. Preliminary Installation Layout	6-1-60
2. Preliminary Interconnecting Diagram	6-1-60
3. Final Interconnecting Diagram	12-1-60
4. Final Performance Spec.	10-20-61
5. Final Installation Layout	8-4-61
6. Technical Manual	12-20-61
7. Technical Progress Letter	Monthly
8. Acceptance Test Report	1 Month Following Delivery of each system
B. Spares	
Initial	
1. First Set Completed	9-15-61
2. Second Set Completed	11-15-61
3. First Set Delivered	1-11-62
4. Second Set Delivered	4-24-62
Supplemental	
1. Go Ahead	11-1-61
2. Fabrication Complete	3-1-62
3. Delivery	6-1-62

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330 Program Review

4 January 1962

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330 Program Checkpoints  
Page Two

C. GSE

Preflight Carts

- |                              |          |
|------------------------------|----------|
| 1. First Cart Completed      | 7-15-61  |
| 2. First Cart Delivered      | 9-15-61  |
| 3. Mods Complete, First Cart | Complete |
| 4. Second Cart Complete      | 8-15-61  |
| 5. Second Cart Delivery      | 1-11-62  |

Maintenance Test Equipment

- |                         |         |
|-------------------------|---------|
| 1. Fabrication Complete | 3-1-61  |
| 2. Testing Complete     | 9-15-61 |
| 3. Delivery             | 1-11-62 |

Spares

- |                         |          |
|-------------------------|----------|
| 1. Fabricated, In Stock | 10-15-61 |
|-------------------------|----------|

D. Field Support

- |                                      |         |
|--------------------------------------|---------|
| 1. First Field Support Rep. In Plant | 6-1-61  |
| 2. Assigned Field Support Manager    | 9-1-61  |
| 3. First Rep. to Factory             | 11-5-61 |
| 4. Transfer of Personnel to Area     | 1-7-62  |
| 5. Power-On Area                     | 1-7-62  |
| 6. First Flight                      | 2-7-62  |
| 7. INS Flight                        | 5-1-62  |

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330 Program Review

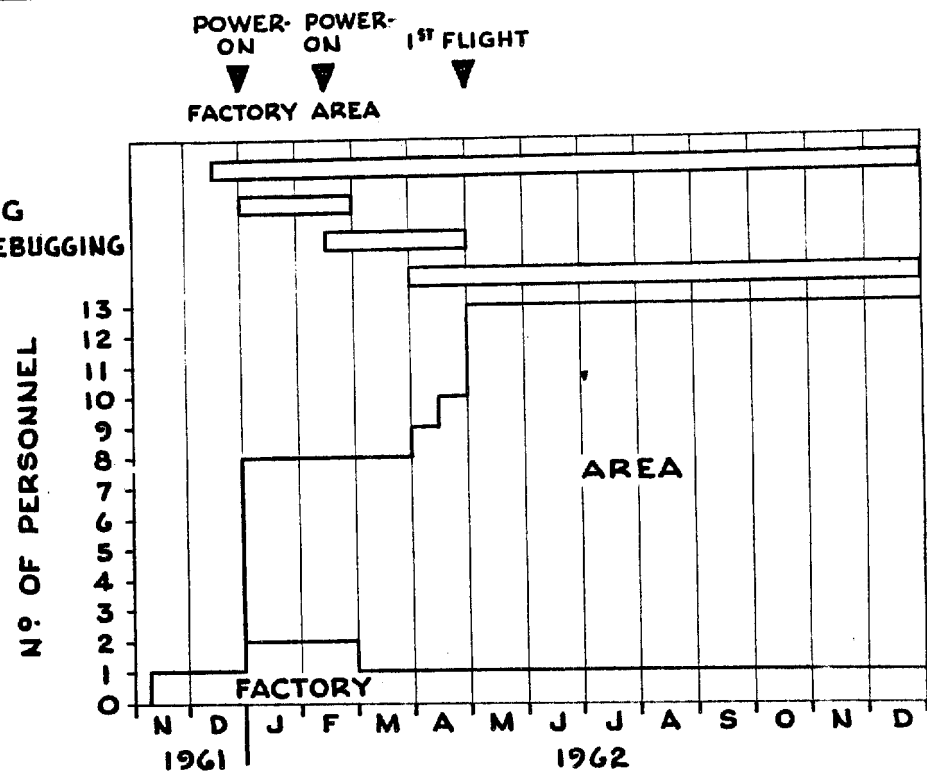
+ January 1962

AS OF  
1 OCT. 1961

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# 330 TECH. REP. SUPPORT

**TASKS**  
FACTORY INST.  
FACILITY PROOFING  
EQUIP. INTERFACE DEBUGGING  
FLIGHT SUPPORT



4 JANUARY 1962









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**330 DELIVERY STATUS**

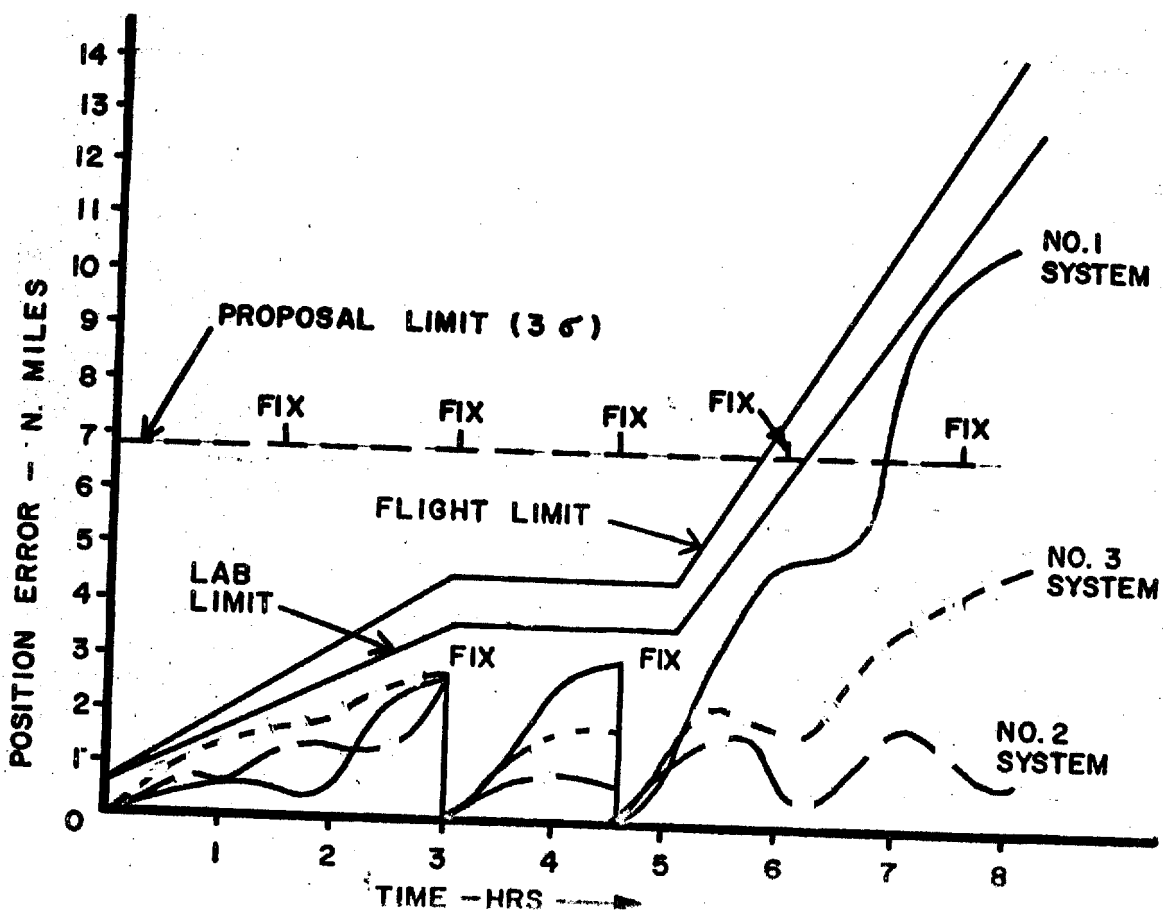
ITEMS OF DELEVERY		1961				1962											
		S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
<u>SYSTEM</u>	J-1					2	▽ <sub>1</sub>										
	J-2						▽ <sub>3</sub>			▽ <sub>4</sub>							
	J-3																
	J-4																
	J-5																
	J-6																
	J-7																
	J-8																
	J-9																
	J-10																
<u>PREFLIGHT CARTS</u>	NO.1																
	NO.2																
<u>MAINT. TEST EQUIP.</u>	COMPUTER TEST UNIT																
	DRUM LOADER																
	PLAT. ELECT. TEST STA.																
	COUPLER TEST STA.																
	RECORDER RACK																

Items of Delivery	System Number	Checkpoints	Date
System	J-1	1	1-11-62
	J-2	1	9-15-61 (Delivered)
		2	to Factory
		3	1-7-62 To Area
		4	2-7-62 First Flight
			5-1-62 First INS
			Flight
	J-3	1	1-18-62 For Flight
	J-4	1	Test
	J-5	1	2-21-62
	1	3-15-62	
	1	4-7-62	
	1	4-28-62	
	1	5-15-62	
	1	6-7-62	
	1	6-28-62	
Preflight Carts #1		1	9-15-61 (Delivered)
#2		1	1-11-62
Maintenance Test Equipment			
Computer Test Unit		1	1-11-62
Drum Loader		1	1-11-62
Platform Elect. Tester		1	1-11-62
Coupler Test Station		1	1-11-62
Recorder Rack		1	1-11-62

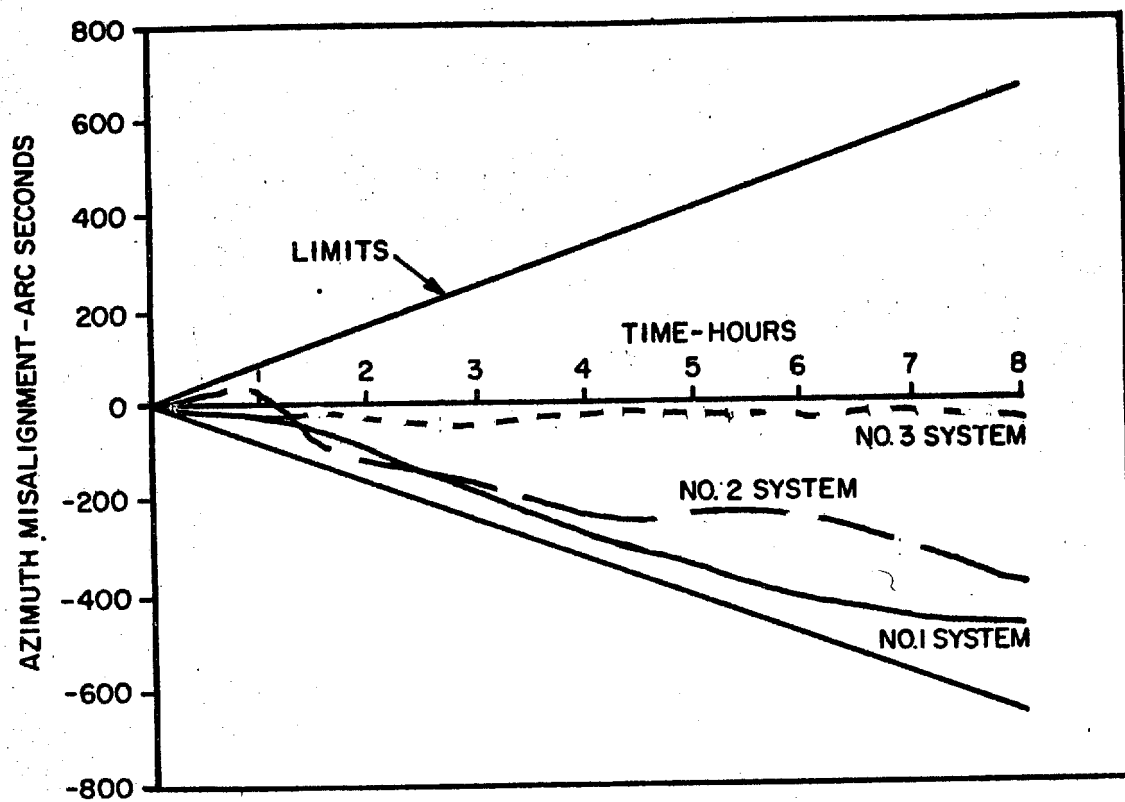
PROPOSED FLIGHT TEST SCHEDULE INS

TASK	1962				
	JANUARY	FEBRUARY	MARCH	APRIL	MAY
INSTALLATION SUPPORT					
GROUND TEST					
PERFORMANCE FLIGHTS					
ZI MILESTONE FLIGHTS					
POLAR MILESTONE FLIGHTS					





Position Error Test Results



Azimuth Error Test Results

330 QUALIFICATION TEST STATUS

<u>TEST</u>	<u>COMPLETE</u>	<u>FAILURES</u>
POWER VARIATION	100%	0
FREQUENCY RESPONSE AND ANGULAR RATES	100%	1 - CORRECTED
CORONA-ALTITUDE	100%	0
SHOCK	100%	0
HUMIDITY - TEMPERATURE	100%	0
VIBRATION	80% *	SEE VIBRATION CHART

\* ONLY RETESTING OF FIXES REMAINING

330 VIBRATION QUAL. TESTS

<u>COMPONENT</u>	<u>TESTING</u>	<u>FIX RETESTING</u>	<u>FAILURE</u>	<u>FIX</u>
POWER SUPPLY	100%	100%	Wire breakage	Additional Tie-downs
NAV Panel	100%	100%	Wire Breakage	Additional Tie-downs
DTG/GS	100%	-----	None	
REPEATER	100%	70%	Wire Breakage & Transformer Shorting	Additional Tie-downs & Redesign of Transformer
PLAT. ELEC.	100%	-----	None	
Computer	100%	85%	Excessive Board Resonance causing open circuits.	Stiffen boards, add additional support, vibration test all production boards.
COUPLER	100%	95%	Excessive deflection of entire structure causing open circuits.	Add base plate and stiffeners on covers.
PLATFORM	100%	50%	Gimbal resonance causing gyro drift in some platforms	Change shock mount. Impose tighter qual. control on gimbal bearings.

PROPOSED FLIGHT DATA PROCESSER & RECORDER

1. Recorded Quantities

Latitude, Longitude, Ground Speed, Camera Pitch, Camera Roll, Camera Heading, Drift Angle,  
Ground Angular Rate, Relative Time.

Form of Inputs

Stepping motors, synchros, resolvers, and square wave precision frequency.

Form of Output

Time - Precision 400 cps continuous recording  
All others - Serial Binary whole number sampled once per camera exposure.

Installation

Weight - 29 lbs.  
Power - 400 cps and 28 V DC  
Recording time - 4 hours  
Location - air conditioning bay above INS  
Cooling Air - 1/2 to 1 lb. depending on temperature.